

LAYKHTMAN, E. L.; POHOLSKAYA, E. L.; SHEKHTER, F. N.

"Radiative heat exchange in the boundary layer of the atmosphere."

report presented at the Atmospheric Radiation Symp, Leningrad, 5-12 Aug 64.

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L 14183-66 EWT(1)/FCC GW

ACC NR: AT6004146

SOURCE CODE: UR/2531/65/000/167/0029/0037

AUTHOR: Shekhter, F. N.

ORG: Main Geophysical Observatory, Leningrad (Glavnaya geofizicheskaya observatoriya)

TITLE: Solution for the problem of structure of the boundary layer of the atmosphere taking account of radiative heat exchange

12,44,55

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 167, 1965. Fizika pogranichnogo sloya atmosfery (Physics of the boundary layer of the atmosphere), 29-37.

TOPIC TAGS: atmospheric boundary layer, radiative heat transfer, temperature distribution, meteorology

ABSTRACT: A system of equations is given together with boundary conditions for determining the structure of the boundary layer of the stationary and horizontally uniform atmosphere taking account of radiative heat transfer. A solution for this system of equations is given and a transcendental equation is derived for determining

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ACC NR: AT6004146

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the height of the boundary layer. This equation is reduced to a form which may be solved by using successive approximations to calculate all terms which depend on temperature and humidity distribution. An example is given to illustrate application of the proposed method for determining the distribution of meteorological elements in the boundary layer of the atmosphere. The effect which the profile of the coefficient of turbulence has on temperature is evaluated as well as the part played by radiative heat exchange in the structure of the boundary layer of the atmosphere under equilibrium conditions. It is found that temperature distribution is strongly dependent on the altitude of the boundary layer of the atmosphere. This altitude, in turn, is considerably dependent on dissipation of turbulent energy. It is suggested that the parameter for dissipation of turbulent energy should be considered an unknown quantity, and that still another relationship should be added for closing the system which describes the structure of the boundary layer. Orig. art. has: 3 figures, 2 tables, 33 formulas.

SUB CODE: 08/ SUBM DATE: 00/ ORIG REF: 005/ OTH REF: 000

Card 2/2 9

L 32930-66 EWT(1)/FCC GW  
ACC NR: AT6021509

SOURCE CODE: UR/2531/66/000/187/0082/0103

AUTHOR: Shekter, F. N.

ORG: none

TITLE: Some problems of radiative thermal exchange in cloudy sky 12

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 187, 1966.  
Fizika pogranichnogo sloya atmosfery (Physics of the atmospheric boundary layer),  
82-103

TOPIC TAGS: radiation transfer, boundary condition, radiation flux, radiation scattering, indicatrix, albedo, effective radiation

ABSTRACT: The transfer of radiation in the atmosphere above and below clouds is treated according to mathematical theory. Formulas are developed for the intensity of radiation propagating upward and downward. Theoretical boundary conditions are set for the solution of equations for the lower surface of clouds and the ground. Solutions obtained are analyzed and the meanings of the terms in the formulas are explained. Similar equations for radiation flux above the upper cloud surface are developed and conditions set for their solution. The absorption and emission of radiation depends upon water vapor and droplets. Radiation scattering occurs on droplets. The solution of the radiation equations is difficult because of the complexity of the indicatrices. The solution is obtained by approximation methods.

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ACC NR: AT6021509

The integral outgoing radiation from a cloud is obtained by integrating equations of the monochromic fluxes departing from the upper and lower cloud surfaces. This integration yields three components: the proper radiation of the cloud, the reflected light, and the radiation which passed through the cloud. The albedo of the cloud is determined taking these three components of radiation into consideration and is represented graphically. The albedo of the upper cloud surface is greater than that of the lower. The attenuation of radiation passing through the cloud is different for the upper and lower surfaces, and it depends upon the quantity of water on the surfaces. The darkness of the cloud depends upon its water content. The effective radiation of the cloud is determined mathematically from the cloud and ground temperatures. Orig. art. has: 6 figures, 4 tables, and 56 formulas. [EG]

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 010/ ATD PRESS: 5028

Card 2/2 *HBB*

All Union Sem. EAT(1)/FOU SP  
Acc. No. A16025043

SOURCE CODE: UR/0362/66/002/003/0324/0325

AUTHOR: Brourshteyn, A. M.; Shekhter, F. N.

88  
71  
B

ORG: none

TITLE: All-Union conference on radiation heat transfer in the atmosphere

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 3, 1966, 324-325

TOPIC TAGS: geophysic conference, meteorologic conference, radiative heat transfer, atmospheric radiation, cloud cover, atmospheric temperature, atmospheric humidity, upper atmospheric radiation, radiation intensity, weather forecasting, solar radiation, radiation measurement, meteorologic instrument

ABSTRACT: The second session of the All-Union seminar on the problem "Radiation Heat Transfer in the Atmosphere" was held at the Main Geophysical Observatory imeni A. I. Voevodskogo (Leningrad) during the period 16-18 October 1965. Problems relating to the influence of cloud cover on the propagation of radiation in the atmosphere were discussed. Three groups of reports and communications were presented. Theoretical investigations. Ye. M. Feygel'son (Institute of Physics of the Atmosphere, Academy of Sciences USSR, Moscow) gave a report entitled "Mutual Influence of Cloud Cover and Radiation", giving the results of numerical experiments whose purpose was to analyze the temporal and vertical change of temperature, humidity and the radiation heat flux in the presence of a cloud cover. Also discussed was the inverse influence of radiation on the development of clouds. A joint study by L. M. Gradus

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ACC NR: AP6025043

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and Ye. M. Feygel'son (Institute of Physics of the Atmosphere, AN SSSR, Moscow) was entitled "Boundary Conditions for the Heat Exchange Equation in a Cloudy Atmosphere", in which they obtained a numerical solution of the problem of a vertical stationary temperature distribution when the atmosphere contains a cloud layer with specific parameters. Turbulent and radiation heat exchange were taken into account. B. Ye. Shneyerov and I. V. Mikhaylova (Main Geophysical Observatory, Leningrad) gave a review of foreign investigations on the influence of cloud cover in numerical experiments for determination of radiation heat fluxes and the temperature distribution in the atmosphere. The spectral distribution of outgoing long-wave radiation and an evaluation of the contribution of different absorption bands to the cooling of the atmosphere in the presence of a continuous cloud cover were considered in a report by V. G. Boldyrev (World Meteorological Center, Moscow); Statistical investigations. L. R. Rakipova (Main Geophysical Observatory, Leningrad), in a report "On the Statistical Relationships Between Outgoing Radiation and the Meteorological Parameters of the Atmosphere", on the basis of extensive data demonstrated that some of the correlations between the outgoing radiation of the earth - atmosphere system and various meteorological parameters of the atmosphere are extremely strong. A report by S. I. Sivkov (Main Geophysical Observatory, Leningrad), "On Computations of the Radiation Regime on the Basis of Cloud Cover Characteristics", described some ways to refine existing and developing new methods for computing the regime of short-wave radiation in the cloudy atmosphere for periods of different duration in relation to the problems of forecasting weather. B. M. Gal'perin (Leningrad), in a study entitled "Influence of the Cloud Cover on Short-Wave

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Radiation and the Daytime Radiation Balance", attempted to establish a relationship between the radiat on characteristics of the cloudy atmosphere and temperature and humidity of the air near the earth's surface. Experimental studies. In a report entitled "Some Results of Study of the Radiation Properties of the Cloud Cover Using Data from Actinometric Radiosonde Observations", G. P. Kostyanoy (Central Aerological Observatory, Moscow), described the vertical profiles of radiation fluxes and fluxes of radiation in the cloudy atmosphere for nighttime. Analysis of the results make it possible for the author to estimate the value of the albedo of the upper cloud boundary. A report by V. L. Gayevskiy, Yu. I. Rabinovich and A. I. Reshetnikov (Main Geophysical Observatory, Leningrad), entitled "Some Results of Measurements of the Albedo of Stratus and Stratocumulus Clouds in the Window 8-12  $\mu\text{m}$ ", was devoted to the method for making aircraft measurements with a selective radiometer and estimating cloud albedo for descending radiation in the "atmospheric window". M. I. Sivyan (Scientific Research Hydrometeorological Institute, Kiev), in a report entitled "The Method and Preliminary Results of Aircraft Measurements of the Radiation Balance in the Cloudy Atmosphere", for the most part dealt with the method for making measurements of albedo and the radiation balance of clouds. L. I. Chapurskiy (Leningrad), in a report on "Spectral Fluxes of Radiation in the Region 0.3-2.5  $\mu\text{m}$  Reflected from Clouds", presented extensive data on the spectral reflectivity of clouds and snow for solar radiation. [JPKS: 35,809]

SUB CODE: 04, 20 / SUBM DATE: none

Card 3/3

GUREVICH, Matvey Yefimovich; SHEKHTER, Georgiy Yevgen'yevich; KISELEVA, V.A.,  
red.; GALAKTIONOVA, Ye.N., tekhn.red.

[Utilizing reserve means in automotive transportation; operating  
practices of the trucking center of the Kiev Trust No.1 of the  
Ukrainian Bakery Administration] Ispol'zovanie vnutrennikh rezervov  
avtokhoziaistva; iz opyta raboty avtobazy no.1 Kievskogo tresta  
Ukrglavkhleb. Moskva, Nauchno-tekhn.izd-vo avtotransp.lit\*ry, 1957.  
71 p. (MIRA 10:12)

(Motortrucks--Maintenance and repair)

AL'BITSKIY, N.; SHEKHTER, I.; POLSHKOV, N.

Using steam for heating belts of inclined conveyors.  
Sel'.stroi. 16 no.2:29 F '62. (MIRA 15:12)

1. Ispolnyayushchiy obyazannosti glavnogo inzhenera proyekta Vsesoyuznogo gosudarstvennogo instituta po proyektirovaniyu elektrifikatsii sel'skogo khozyaystva (for Al'bitskiy).
2. Starshiy inzhener Vsesoyuznogo gosudarstvennogo instituta po proyektirovaniyu elektrifikatsii sel'skogo khozyaystva (for Shekhter).
3. Starshiy tekhnik Vsesoyuznogo gosudarstvennogo instituta po proyektirovaniyu elektrifikatsii sel'skogo khozyaystva (for Polshkov).

(Conveying machinery)

SHELDON, E. A.

"Roentgenodiagnosis of Fractures in Nose Bones," Vest. Oto-rino-laringol., No. 2, 1949.  
Dr. Medical Sci. Ukr., Chair. Roentgenology, Central Inst. Advanced Training for Physicians,  
-clv's-

С. А.

36449. SAKHAROV, I. A. I GOLOVINCHITS, V. A.

Онлайн-издание Музея В. Святого Рентгена - Гастроэктомии Ильи Головинчича и Фареллея. Книгу «Илья Головинчиков и Фарелль» можно купить в интернет-магазине Ильи Голевинчича и Фареллея. Книга «Илья Голевинчиков и Фарелль»

См.: История Журнал'ных Статья, Vol. 49, Москва, 1949

YAL'TSEV, P.D., professor; SHEKHTER, I.A., professor.

Errors in clinical X ray diagnosis of cancer of the stomach.  
Vest.rent.i rad. no.5:30-35 S-0 '53. (MLRA 7:1)

1. Iz rentgenodiagnosticskogo otdeleniya (rukovoditel' -  
professor I.A.Shekhter) Nauchno-issledovatel'skogo instituta  
rentgenologii i radiologii im. V.M.Molotova (direktor -  
professor P.D.Yal'tsev).  
(Stomach--Cancer) (Diagnosis, Radioscopic)

SHEKHTER, I. A.

USSR/Medicine - Roentgenology

Card 1/1

Authors : Shekhter, I. A., Prof., and Mikhalkchenko, V. A.

Title : Clinical and X-ray observations on the condition of the bronchial stump after pneumonectomy

Periodical : Vest Rentgen i Radiol 1, 19-25, 1954

Abstract : Made observation on the bronchial stump of 22 patients recovering from pneumonectomy operations. Observation of the stump and its investigation using X-rays greatly enhances the work.

Institution : Surgical Department of the clinic (Chief-Ye. S. Lushnikov) and X-ray Diagnosis Department (Chief-Professor I. A. Shekhter) of the Scientific-Research Institute of Roentgenology and Radiology imeni V. M. Molotov (Director-Professor P. D. Yal'tsev)

SHEKHTER, I.A., professor; BRYUM, B.I., doktor meditsinskikh nauk;  
LUSHNIKOV, Ye.S., kandidat meditsinskikh nauk

Data on the problem of errors in roentgenologic diagnosis of  
pulmonary cancer. Vest. rent. i rad. no.4:26-31 Jl-Ag '54.  
(MLRA 7:10)

1. Iz Gosudarstvennogo instituta rentgenologii i radiologii  
imeni V.M.Molotova (dir. I.G.Lagunova)  
(LUNGs, neoplasms,  
differ. diag., x-ray, errors)

SHEKHTER, I.A., professor; LUSHNIKOV, Ye.S.; LUK'YANCHENKO, B.Ya.

Method of retroperitoneal injection of gas and its roentgenodiagnostic significance. Khirurgiia no.11:36-43 N '54. (MLRA 8:3)

1. Iz rentgenodiagnosticheskogo otdeleniya (zav. prof. I.A.Shekhter) i khirurgicheskogo otdeleniya (zav. Ye.S.Lushnikov) Nauchno-issledovatel'skogo instituta rentgenologii i radiologii imeni V.M.Molotova (dir. I.G.Lagunov).

(PNEUMOPERITONEUM, ARTIFICIAL,  
retropneumoperitoneum, technic)

SHEKHTER, I.A., professor; BELYAYEVA, V.F.

Results of angiography in the diagnosis of congenital heart defects. Vest. rent. i rad. no.2:62-67 Mr-Ap '55. (MLRA 8:5)

I. Iz rentgenodiagnosticheskogo otdela (zav. prof. I.A.Shekhter) Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii i radiologii imeni V.M.Molotova (dir. I.G.Lagunova).

(ANGIOGRAPHY,

angiography, diag. of congen. cardiovasc. defects)

(CARDIOVASCULAR SYSTEM, radiography,

angiography, diag. of congen. cardiovasc. defects)

(CARDIOVASCULAR DEFECTS, CONGENITAL, diagnosis,

angiography)

SHEKHTER, I. A., prof.; ZUBCHUK, N. V.

Clinical-roentgenological function test of the remaining lung following pneumonectomy. Khirurgiia. no.12:28-35 D '55 (MLBA 8:4)

1. Iz rentgenodiagnosticheskogo otdeleniya (zav. prof. I. A. Shekter) Gosudarstvennogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta imeni V. M. Molotova (dir. I. G. Lagunova).

(LUNGS, surgery,  
pneumonectomy, postop. funct. test of residual lung)

SHEKHTER, I.A., professor; ZUBOVSKIY, G.A., nauchnyy sotrudnik

Use of radioactive isotopes in stomatology; review of Russian and foreign literature. Vest.rent. i rad. 31 no.6:65-70 N-D '56.

(MLRA 10:2)

1. Iz kafedry rentgenologii i radiologii (zav. - prof. I.A.Shekhter) Moskovskogo meditsinskogo stomatologicheskogo instituta (dir. - dotsent G.N.Beletskiy) i radiologicheskogo otdela (zav. - professor A.V.Kozlova) Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii i radiologii im. V.M.Molotova (dir. - dotsent I.G. Lagunova)

(RADIATIONS, eff.

on mouth & teeth, review)

(TEETH, eff. of radiations on  
review)

(MOUTH, eff. of radiations on  
review)

KAGAN, Ye.M. (Moskva); SHEKHTER, I.A. (Moskva)

Intravenous cholangiocholecystography. Klin.med. 34 no.5:43-49  
My '56. (MLRA 9:10)

1. Iz rentgenodiagnosticheskogo otdela (zav. - prof. I.A.Shekhter)  
Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii  
i radiologii imeni V.M.Molotova (dir. - dots. I.G.Lagunova) .

(CHOLECYSTOGRAPHY,

cholangio-cholecystography, intravenous, with sodium  
iodipamide (Rus))

(CONTRAST MEDIA,

sodium iodipamide in intravenous cholangio-cholecysto-  
graphy (Rus))

SHEKHTER, I.A., professor; BENTSIANOVA, V.M., kandidat meditsinskikh nauk

Basic principles and methods of radiotherapy for malignant growths of  
the maxillofacial region. Stomatologija 35 no.6:26-33 N-D '56  
(MLRA 10:4)

1. Iz kafedry rentgenologii i radiologii (zav.-prof. I.A. Shekhter)  
Moskovskogo meditsinskogo stomatologicheskogo instituta (dir.-dotsent  
G.N. Beletskiy)  
(JAWS--CANCER) (FACE--CANCER) (RADIOTHERAPY)

SHEKHTER, I.A., prof. (Moskva, Novopeschannaya ul., d.3, kv.46)

Difficulties and errors in the roentgenologic detection of lung cancer [with summary in English]. Vop.onk. 3 no.5:589-595 '57.  
(MIRA 11:2)

1. Iz rentgenodiagnosticheskogo otdela (zav. - prof. I.A.Shekhter)  
Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii  
i radiologii (dir. - dots. I.G.Lagunova)  
(LUNG NEOPLASMS, diag.  
x-ray, errors)

EXCERPTA MEDICA Sec 15 Vol. 11/9 Chest Sept 58  
Shekhter I.A.

15-  
.15)

1807. THE SIGNIFICANCE OF TRANSVERSE TOMOGRAPHY IN THE DIAGNOSIS OF DISEASES OF THE LUNGS AND MEDIASTINUM (Russian text) - Shekhter I. A., Cagan E. M. and Zubchuk N. V. - KHIRURGILA

1957, 8 (21-27) Tables 1 Illus. 9

Twenty-five normal people of different constitution were examined. The methods of taking transverse tomograms of various depths of the thorax are described. The use of transverse tomography in 116 patients suffering from different diseases of the lungs and mediastinum gave the opportunity to establish that his method plays an important additional role in more precise determination of topographo-anatomical localization of the pathological process, its size, degree of spread and characteristic relationship to adjacent organs.

(XIV, 15)

SHEKHTER, I.A., professor; DMOKHOVSKIY, V.V., kandidat tekhnicheskikh nauk

Using an image-converter tube in X-ray diagnosis. Vest.rent. i  
red. 32 no.3:88-93 My-Je '57. (MIRA 10:10)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta  
rentgenologii i radiologii imeni V.M.Molotova (dir. - dotsent  
I.G.Lagunova).

(ROENTGENGRAMS

intensi interpretation with electron-optical transformer)

(ROENTGENOGRAPHY, appar. and instruments

roengenogram electron-optical transformer for  
interpretation of roentgenograms)

SHEKHTER, I.A., prof. (Moskva)

X-ray diagnosis of coelomic cysts of the pericardium [with summary in English]. Vest.rent. i rad. 32 no.5:40-46 S-0 '57. (MIRA 11:2)

1. Iz rentgenodiagnosticheskogo otdela (zav. - prof. I.A.Shekhter)  
Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii  
i radiologii (dir. - dotsent I.G.Labunova)  
(PERICARDIUM, cysts  
coelomic, x-ray diag. (Rus))

SHEKHTER, I.A., prof.

Angiography and its clinical significance. Khirurgiia 34 no.3:52-60  
Mr '88. (MIRA 12:1)

1. Iz rentgenologicheskogo otdela (zav. - prof. I.A. Shekhter) Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii i radiologii Ministerstva zdravookhraneniya RSFSR (dir. - dots. I. G. Logunova)  
(ANGIOGRAPHY  
clin. importance, review (Rus))

SHEKHTER, Il'ya Aleksandrovich, prof.; PAVLOV, Aleksandr Sergeyevich,  
dotsent; BENTSIANOVA, V.M., red.; SENCHILO, K.K., tekhn.red.

[Course in medical roentgenology and radiology] Kurs meditsinskoi  
rentgenologii i radiologii. Moskva, Gos.izd-vo med.lit-ry,  
1959. 349 p. (MIRA 13:6)  
(RADIOLOGY, MEDICAL)

SHEKHTER, I.A. (Moskva, D-57, Novopeschanaya ul., d.3, kv.46)

Present status and problems of the roentgenodiagnosis of lung cancer.  
(MIRA 12:12)  
Vop.onk. 5 no.8:227-235 '59.

1. Iz rentgeno-diagnosticheskogo otdela (zav. - prof. I.A. Shekhter)  
Gosudarstvennogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo  
instituta Ministerstva zdravookhraneniya RSFSR (dir. - dots. I.G.  
Lagunova).  
(LUNGS neoplasms)

SHEKHTER, I.A., prof.

Importance of radiographic studies in the diagnosis of gastritis.  
Trudy Tsentr. nauch.-issl. inst. rentg. i rad. 10:3-13 '59.  
(MIRA 12:9)

(STOMACH--INFLAMMATION) (RADIOGRAPHY)

SHEKHTER, I.A., prof.

\*Emergency X-ray diagnosis\* by G.A. Zedgenidze, L.D. Lindenbraten.  
Reviewed by I.A. Shekter. Vest. rent. i rad. 34 no.1:91-92 Ja-~~F~~ '59.  
(DIAGNOSIS, RADIOSCOPIC) (MIRA 12:3)  
(ZEDGENIDZE, G.A.) (LINDENBRATEN, L.D.)

SHEKHTER, I.A.; PEREL'MAN, M.I.; ASTRAKHANTSEV, F.A.; UPITER, M.Z.

Angiopulmonography in surgery of pulmonary tuberculosis. Khirurgiia  
35 no. 9: 57-63 '59. (MIRA 13:12)

(LUNGS—BLOOD SUPPLY) (ANGIOGRAPHY)  
(TUBERCULOSIS)

SHEKHTER, I.A., prof.; FRIDKIN, V.Ya., doktor med.nauk

"Bronchiography" by IU.N. Sokolov, L.S. Rozenshtraukh. Reviewed by  
I.A. Shekhter, V.IA. Fridkin. Vest. rent. i rad. 35 no. 2:88-90  
Mr-Ap '60. (MIRA 14:2)  
(BRONCHI—RADIOGRAPHY) (SOKOLOV, IU.N.) (ROZENSHTRAUKH, L.S.)

ZEDGENIDZE, G.A., prof. otv. red.; BENTSIANOVA, V.M., dotsent, red.; VIKTURINA, V.P., kand. med. nauk, red.; ZUBCHUK, N.V., kand. med. nauk, red.; LAGUNOVA, I.G., prof., red.; POBEDINSKIY, M.N., prof., red.; REYNBERG, S.A., zasluzhennyj dzhatel' nauki, prof., red.; ROZENSHTRAUKH, L.S., doktor med. nauk, red.; ROKHLIN, D.G., prof., red.; SOKOLOV, Yu.N., prof., red.; FANARDZHYAN, V.A., red.; SHEKHTER, I.A., prof., red.; SHTERN, B.M., prof., red.; SHTERN, V.N., prof., red.; ZUYEVA, N.K., tekhn. red.

[Transactions of the Seventh All-Union Congress of Roentgenologists and Radiologists] Trudy Vsesoyuznogo s"ezda rentgenologov i radiologov, 7th, Saratov, 1958. Moskva, Gos. izd-vo med. lit-ry Medgiz, 1961. 317 p.

(MIRA 14:7)

1. Vsesoyuznyj s"ezd rentgenologov i radiologov, 7th, Saratov, 1958.
2. Dzhystviteľnyj chlen AMN SSSR (for Zedgenidze).
3. Chleny-korrespondenty AMN SSSR (for Rokhlin, Fanardzhyan).
4. Akademija nauk Armyanskoy SSR (for Fanardzhyan)

(RADIOLOGY, MEDICAL)

SHEKHTER, I.A.; PAVLOV, A.S.

Teaching roentgenology and radiology in the Moscow Medical  
Stomatological Institute. Med.rad. no.5:14-20 '61.

(MIRA 14:11)

(MOSCOW—RADIOLOGY, MEDICAL—STUDY AND TEACHING)

SHEKHTER, I.A., prof. (Moskva, A-57, Novopeshchanaya ul., d.3, kv.46);  
KAGAN, Ye.M., kand.med.nauk

X-ray cinematography in X-ray diagnosis. Report No. 1. Vest. rent.  
i rad. 36 no.4:10-16 Jl-Ag '61. (Mira 15:2)

1. Iz rentgenodiagnosticheskogo otdela (zav. - prof. I.A.Shekhter)  
Gosudarstvennogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo  
instituta Ministerstva zdravookhraneniya RSFSR (dir. - prof. I.G.  
Lagunova). (DIAGNOSIS, RADIOSCOPIC) (CINEFLUOROGRAPHY)

SHEKHTER, I.A., prof.; RABUKHINA, N.A., kand.med.nauk; KRONROD, B.A.  
(Moskva)

X-ray diagnosis of calcifications of the coronary arteries.  
Klin.med. no.1:58-62 '62. (MIRA 15:1)

1. Iz rentgenologicheskogo otdela (zav. - prof. I.A. Shekter)  
Gosudarstvennogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta (dir. - prof. I.G. Lagunova) Ministerstva zdravookhraneniya RSFSR i gorodskoy klinicheskoy bol'nitsy No.33  
imeni Ostroumova (glavnnyy vrach P.V. Abashkina).  
(CORONARY VESSELS—CALCIFICATION) (DIAGNOSIS, RADIOSCOPIC)

SHEKHTER, I.A., prof.; RABUKHINA, N.A., kand.med.nauk (Moskva)

Identifying cancer of the head of the pancreas by means of duodenography. Vrach. delo no.9:9-14 S 63. (MIRA 16:10)

1. Rentgenodiagnosticheskiy otdel (za . - prof. I.A.Shekhter) nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta.

(PANCREAS -- CANCER) (DUODENUM --RADIOGRAPHY)

SHEKHTER, I.A. (Moskva, A-57, Novopeschanaya, 3, kv. 46); ROSTOVTSEVA,  
T.F. (Moskva, 5-ya ul. Oktyabr'skogo polya, 13, kv. 53)

Clinicoroentgenological diagnosis of glomus jugulare tumors.  
(MIRA 17:9)  
Vopr. onk. 9 no.4:30-36 '63.

1. Iz rentgenodiagnosticheskogo otdela (zav. - prof. I.A. Shekter) Gosudarstvennogo nauchno-issledovatel'skogo rentgenoradiologicheskogo instituta Ministerstva zdravookhraneniya RSFSR (dir. - prof. I.G. Lagunova).

SHEKHTER, I.A., prof.; CHNISSR, N.G., kand. med. nauk

Severity of the stenosis of an ulcerative origin. Vestn. rent.  
i radiol. 38 no. 3: 59-46. Ny-Je '63. (MUSA 17:7)

1. Iz rentgenodiagnosticheskogo otdela (zav. - prof. I.A. Shekhter) Gosudarstvennogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta ( direktor - prof. I.G. Lagunova) Ministerstva zdravookhraneniya RSFSR i 2-y kafedry rentgenologii (zav. - prof. Yu.N. Sokolov) Tsentral'nogo instituta usovetshenstvovaniya vrazhey.

SHEKHTER, I.A., prof.; RABUKHINA, N.A., kand.med. nauk

Study of the motor function of the duodenum under normal conditions and in some pathological processes using the electron-optic transformer and cineroentgenography. Vestn. rentgen. i radiol. 38 no.4:22-28 Jl-Ag'63 (MIRA 17:2)

1. Iz rentgenodiagnosticheskogo otdela (zav. - prof. I.A. Shekter) Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii i radiologii (dir. - prof. I.G. Lagunova) Ministerstva zdravookhraneniya RSFSR.

SHEKHTF<sup>o</sup>, I.A., prof.; PAVLOV, A.S., dotsent; BEMTSIANOVA, V.N., dotsent;  
VOROB'YEV, Yu.I., assistant

Results of radiotherapy for malignant tumors of the maxilla. Teor.  
(MIRA 18:3)  
i prak.stom. no.6:148-155 '63.

1. Iz kafedry rentgenologii i radiologii (zav. - prof. I.A.Shekhter)  
Moskovskogo meditsinskogo stomatologicheskogo instituta.

SHEKHTER, I.A., prof.; VOROB'YEV, Yu.I., kand. med. nauk; KOTEL'NIKOV, N.V.

Importance of tomography in compound X-ray study of patients  
with lesions of the maxillofacial region. Stomatologija 43  
no. 1938-44 Ja-F'64 (MIRA 1784)

I. Kafedra rentgenologii i radiologii (zav. - prof. I.A.  
Shekhter) Moskovskogo meditsinskogo stomatologicheskogo insti-  
tuta.

SHEKHTER, I.A. (Moskva, A-57, Novopeschanaya ul., d.3, kv.46); BROVKINA, A.F.

Angiographic examination in vascular tumors of the orbit. Vop. onk.  
10 no.4:3-8 '64. (MIRA 17:11)

1. Iz kafedry rentgenologii i radiologii (zav. - prof. I.A. Shekter) Moskovskogo meditsinskogo stomatologicheskogo instituta rektor - dotsent G.N. Belatskiy) i iz Moskovskoy glaznoy klinicheskoy bol'nitsy (glavnnyy vrach - I.A. Lyubchenko, nauchnyy rukovoditel' - zasluzhennyy deyatel' nauki prof. M.L. Krasnov);

"APPROVED FOR RELEASE: 08/23/2000

**CIA-RDP86-00513R001549010010-0**

**APPROVED FOR RELEASE: 08/23/2000**

CIA-RDP86-00513R001549010010-0"

SHUKRE, ..., prof.; SVIRIDOV, N.N.; MACHAEV, G.G., radi.

Book reviews, Vest. rent. i rad. 39 no.5:1970, p.1-10.  
(USSR 1970).  
I. Prezidiat' pravleniya Leningradskogo nauchnogo obshchestva  
rentgenologov i radiologov (for Kosinskaya).

SHEKHTER, I.A., prof.; PEREL'MAN, M.I., dotsent; ASTRAKHANTSEV, F.A.;  
UPITER, M.Z.

Diagnostic significance of angiopulmonography in tuberculosis  
of the lungs. Vest. rent. i rad. 37 no.5:17-21 S-0 '62.  
(MIRA 17:12)

1. Iz kafedry tuberkuleza (zaveduyushchiy - prof. A.Ye. Rabukhin)  
TSentral'nogo instituta usovershenstvovaniya vrachey i rentgeno-  
diagnosticheskogo otdela (zaveduyushchiy - prof. I.A. Shekhter)  
Gosudarstvennogo nauchno-issledovatel'skogo rentgeno-radiolog-  
icheskogo instituta i khirurgicheskogo otdeleniya (zaveduyushchiy -  
dotsent M.I. Perel'man) 3-y Moskovskoy klinicheskoy tuberkuleznoy  
bol'nitsy "Zakhar'ino" (glavnnyy vrach V.P. Petrik). Adres avtora:  
Novopeschanaya ulitsa, dom 3, kvartira 46.

SHKEHTER, I.A., prof.; ANDROSOV, P.I., prof.; AKIMOV, A.M., kand. tekhn.  
nauk, KIREEVSKIY, V.N.V.

X-ray study of the morphology and function of the gastrointestinal  
tract following resection of the stomach and its substitution  
with a section of small or large intestine. Vest. rent. i rad.  
(MIRA 18:9)  
pp. 424-30 Jl-Ag '65.

I. Kafedra rentgenologii i radiologii (zav.- prof. I.A. Shekhter)  
i kafedra obshchey khirurgii (zav.- prof. P.I. Androsov) Moskov-  
skogo meditsinskogo stomatologicheskogo instituta na baze Moskov-  
skogo nauchno-issledovatel'skogo instituta skoroy pomoshchi imeni  
Sklifosovskogo.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549010010-0

CHTRIN, R.N., prof., 3000RTFM, 1st Lt., pilot, ZHABIN, 7th Sq., grad., NIMSH, V.V.  
by AF name. Tested, rated, to rate 40 min. 23.27 - 10 kg 161.  
(MIRA 18/9)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549010010-0"

SHEKINTER, I.Ya.

New drawing desk. Mashinostroitel' no.4:28 Ap '62. (MIRA 15:5)  
(Mechanical drawing--Equipment and supplies)

MAL'MOREN, E.; RAYEVSKAYA, Ye.; SHEKHTER, I.Yu., red.; GAUS, A.L.,  
izdat.red.; NATAPOV, M., tekhn.red.

[Collection of exercises in translating German scientific  
and technical literature] Sbornik uprazhnenii po perevodu  
nemetskoi nauchno-tekhnicheskoi literatury. Izd.2. Moskva,  
Izd-vo lit-ry na inostr.azykakh, 1959. 189 p.  
(MIRA 12:7)

(German language--Translating)  
(Science--Translating)

TETENI, P.; SHEKHTER, K.

Effect of the method of preparing on the activity of nickel catalysts.  
Dokl. AN SSSR 146 no.3:621-624 S '62. (MIRA 15:10)

1. Institut izotopov Komissii po atomnoy energii Vengerskoy Narodnoy  
Respubliki, Budapest, Vengriya. Predstavлено академиком А.А.Баландиным.  
(Nickel catalysts)

SHEMYAKIN, F. M. PROF., KARPOV, A. N. DOCENT,  
ZELIKSON, YU. I., SHEKHTER, L. I.

Copper

Quantitative determination of copper by the maximum dilution method. Apt. delo, No. 4,  
1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

BLAGOVIDOVA, Yu.A.; LOPATIN, V.P.; SHEKHTER, L.I.

Sterilization of air in table boxes. Apt. delo. 4 no.6:3-5 N-D  
'55. (MLRA 9:1)

1. Iz kafedry tekhnologii lekarstvennykh form i galenovykh  
preparatov (zav.- dotsent A.S. Prozorovskiy) Moskovskogo farmatsevt-  
icheskogo instituta Ministerstva zdravookhraneniya SSSR.

(ANTISEPTIS AND ASMPISES,  
pharma. sterilization of air in table boxes)

(AIR,  
sterilization of air in table boxes in pharm)

SHEKHTER, L. I.

An Investigation of the Stresses and Deformation [Set up] in the Extension<sup>2</sup> of Tubular Specimens of Polycrystalline Metals on Which Necks Are Developed. L. G. Afendik and L. I. Shekhter (Fizika Metallov i Metallovedenie, 1956, 2, 31, 638-648). [In Russian]. Formulae are derived for the components of stress and strain in the smalleas; cross-section of the neck in tubular specimens deformed in tension. The formulae are applied to experiments on steel tubes 8-9 mm. in dia. and 0.9-1.0 mm. wall thickness. — A. F. B.

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SOV/124-58-8-9337

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 137 (USSR)

AUTHORS: Afendik, L.G., Shekhter, L.I.

TITLE: A Tensile Stress-strain Investigation of Tubular Specimens of Polycrystalline Metals Subject to Stricture (Issledovaniye napryazheniy i deformatsiy pri rastyazhenii trubchatykh obraztsov iz polikristallicheskikh metallov, obrazuyushchikh sheyku)

PERIODICAL: Nauchn. zap. In-ta mashinoved. i avtomatiki. AN UkrSSR, 1957, Vol 6, pp 100-108

ABSTRACT: See RZhMekh, 1958, Nr 8, abstract 9336.

Card 1/1

KOZLOV, V.G., PYGEMON, V.I., MITROFANOV, G.G., SREKHIN, L.P.

Modern anaesthesia in neurosurgery. Trudy Inst. klin. i eksp.  
khir. AN Kazakh. SSR 9,139-142 '63. (MEPA 17:12)

ACC NR: AP7011379

SOURCE CODE: UR/0367/66/004/005/1063/1066

AUTHOR: Bilen'kiy, S. M. -- Bilenky, S. M.; Lapidus, L. I.; Ryndin, R. M.; Shekhter, L. Sh.

ORG: Joint Institute for Nuclear Research (Ob'yedinennyj institut jadernykh issledovanij)

TITLE: Isospin conservation and polarization effects

SOURCE: Yadernaya fizika, v. 4, no. 5, 1966, 1063-1066

TOPIC TAGS: electron spin, strong nuclear interaction, particle interaction

SUB CODE: 20

ABSTRACT: The reactions  $a + a' \rightarrow b + b'$  are treated, where the particles  $a$  and  $a'$  (or  $b$  and  $b'$ ) belong to the same isotopic multiplet, and the total isotopic spin of the final (or initial) particles may take only one value. Relationships have been obtained between polarization characteristics of such reactions at the angles  $\theta$  and  $\pi - \theta$  ( $\theta$  is the c.m.s. angle). These relationships are based only on isotopic invariance and invariance under rotations and reflections. Their experimental verification would be a detailed test of the isotopic invariance of strong interactions.

Card 1/2

0831 1773

ACC NR: AP7011379

Two of the authors (Bilen'kly and Lapidus) thank G. M. Osetinskiy for useful discussion of the questions considered here. Orig. art. has: 24 formulas. [Based on authors' Eng. Abst.] [JPRS: 40,393]

Card 2/2

SHEKHTER, M. M. and MALYSHKIN, K. P.

Kombinirovannaia obrabotka krupnykh detalei. Sverdlovsk, Mashgiz, 1948. 112 p.

(Combined machining of large machine parts.)

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

SHEKHTER, M.M.; KHANTSIS, M.Y.

Combined inspection conveyor. Kons. i ov. prom. 17 no.8:  
10-12 Ag '62. (MIRA 17:1)

1. Odesskiy gosudarstvennyy institut proyektirovaniya  
promyshlennosti.

SHEKHTER, M.M.

Improvement of the transportation of tin containers in  
canneries. Kons.i ov.prom. 15 no.4:21-22 Ap '60.

(MIRA 13:6)

1. Gosudarstvennyy institut proyektirovaniya promyshlennosti,  
Odessa.

(Canning industry--Equipment and supplies)  
(Tin cans)

SHEKTER, M.M., inzh.

Remodeling crushing and fanning and rolling departments. Masl.-zhir.  
prom. 27 no. 6:38-39 Je '61. (MIRA 14:6)

1. Gosudarstvennyy institut proektirovaniya promyshlennosti  
"Giproprom." (Odessa—Oils and fats)

SHEKINTER, M.M., starshiy inzh.

Sectional belt conveyor. Kons.i ov.prom. 17 no.2:36-37 F '62.  
(MIRA 15:5)

1. Tekhnologicheskiy otdel Gosudarstvennogo instituta  
projektirovaniya promyshlennosti, Odessa.  
(Conveying machinery)

SHKHTER, M.S.

Participation of the second signal system in the processes of  
formation of conditioned bonds. Vop.psichol. no.1:42-52 Ja-F '56.  
(MLRA 9:5)  
(Speech) (Conditioned response)

SHEKHTER, M.S.

Some theoretical aspects of the psychology of recognition. Vop.  
psikhcl no.4:35-46 Jl-Ag '63. (MIRA 17:1)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR,  
Moskva.

X

SHEKHTER, M.Ye.

KUDRYAVTSEVA, T.S.; SHEKHTER, M.Ye.; KARAVAYEV, N.M.; REYKHSHTADT, V.Ya.,  
redaktor; SHPAK, Ye.I., tekhnicheskiy redaktor

[D.I.Mendeleev and the Russian coal industry] D.I.Mendel'ev i  
ugol'naia promyshlennost' Rossii. Pod red. N.M.Karavaeva. Moskva,  
Ugletekhizdat, 1952. 85 p. (MLRA 7:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Karavayev)  
(Mendeleev, Dmitrii Ivanovich, 1834-1907)  
(Coal mines and mining)

1. SHEKTER, M.
2. USSR (600)
4. Korea - Coal Miners
7. Miners in embattled Korea.  
Mast. ugl., 1 no.9 1952.
  
9. Monthly List of Russian Accessions, Library of Congress, February 1953.  
Unclassified.

SHEKHTER, M.; MENDELEYEV, D.I.

A forgotten article of D.I.Mendeleev. Trudy Inst.ist.est. 4:452-453  
'52. (MLRA 6:7)  
(Mendeleev, Dmitrii Ivanovich, 1834-1907)

1. SHEKHTER, M. YE.
2. USSR (600)
4. Industrial Museums
7. Eightieth anniversary of the Polytechnical Museum. Vest. mash. No. 12 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

*Shekhter, M.E.*

USSR/Miscellaneous - Industrial exhibition

Card 1/1 Pub. 128 - 25/32

Authors : Mel'nikov, V. N., and Shekhter, M. E.

Title : Concerning the 125th anniversary of the first Russian industrial exhibition

Periodical : Vest. mash. all, 91-93, Nov 1954  
*34*

Abstract : A short report is presented on the occasion of the 125th anniversary of the first Russian industrial exhibition in Leningrad. Three USSR references (1828-1949).

Institution : ...

Submitted : ...

DATA CARD # 417

USSR/ Scientist - Machine designer

Card 1/1 Pub. 128 - 20/25

Authors : Mel'nikov, V. N., and Shekhter, M. Ye., Engineers

Title : Memorable dates

Periodical : Vest. mash. 35/4, 85-86, Apr 1955

Abstract : Editorial is presented honoring the 275-th birthday of Andrey Konstantinovich Nartov, Russian machine designer of the 18-th century. Illustration.

Institution : .....

Submitted : .....

SHEKHTER, Mykhaylo Yevheniyovych

[Lenin and technology] Lenin i tekhnika. Kyiv, Derzh. vyd-vo  
polit.lit-ry URSR, 1960. 80 p. (MIRA 15:6)  
(Lenin, Vladimir Il'ich, 1870-1924)  
(Technology)

SHEKHTER, O.Ya.

Calculation of foundation slabs laid on finitely thick elastic  
soil layers. Trudy NII osn. i fund. no.11:139-151 '48. (MLRA 7:11)  
(Foundations) (Soil mechanics)

SHEKHTER, O.Ya.

Dynamic calculation of pile capping. Trudy NII ozn. i fund. no.12:  
34-50 '48.  
(MLRA 7:11)  
(Pile driving)

SHEKHTER, O.Ya.

Accounting for soil inertia properties in the calculation of vertical forced vibrations in massive foundations. Trudy NII osn. i fund. no.12:72-89 48.

(MLRA 7:11)

(Soil mechanics) (Foundations--Vibration)

SHEKHTER, O.Ya.

Use of prof. N.M. Gersevanov's interrupter in the dynamic  
calculations of concentrated-mass beams. Trudy NII osn. i fund. no.  
12:90-104 '49. (MLRA 7:11)

(Girders) (Foundations--Vibration)

SHEKHTER, O.Ya.

Propagation of spherical waves in water saturated soils. Trudy  
NII osn. i fund. no.22:47-78 '53. (MLRA 7:11)  
(Soil research) (Seismometry) (Waves)

15-57-4-5402

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,  
p 185 (USSR)

AUTHORS: Gorbunov-Posadov, M. I., Shekhter, O. Ya., Kofman V. A.

TITLE: Soil Pressure on the Rough Buried Foundation and Unrestricted Deformations of a Trench (Davleniye grunta na zhestkiy zaglublennyi fundament i svobodnyye deformatsii kotlovana)

PERIODICAL: Tr. n.-i. in-ta osnovaniy i fundamentov, 1954, Nr 24,  
pp 39-80.

ABSTRACT: Bibliographic entry

Card 1/1

GORBUNOV-POSADOV, M.I.; SHEKHTER, O.Ya.; KOFMAN, V.A.

Earth pressure on a hard embedded foundation and free deformation  
of the foundation pit. Trudy NII osn. i fund. no.24:39-80 '55.  
(Earth pressure) (Foundations) (MLRA 8:3)

USSR/Physics - Forced vibrations

FD-3153

Card 1/1 Pub. 153 - 9/26

Author : Barkan, D. D.; Shekhter, O. Ya.

Title : Theory of forced oscillations of a vibrator with stopping device

Periodical : Zhur. tekhn. fiz., 25, No 13 (November), 1955, 2300-2307

Abstract : The theory of forced oscillations of a vibrator with one degree of freedom which hits against an arrestor was developed by I. G. Rusakov and A. A. Kharkevich (ibid., 12, 11-12, 1942) and further by S. A. Tsaplin (Vibroudarnyye mekhanismy [Vibro-shock mechanisms], Avtotransizdat [Automobile Transportation Press], 1953), namely under the assumption that the shocks of the vibrator against the arrestor take place for time intervals  $nT$  times the period of the disturbing force of the vibrator; proceeding from this assumption they established the regions of existence of periodic movements of the vibrator. The present authors claim that the Rusakov-Kharkevich conditions are insufficient for the existence of periodic movements of the vibrator, namely that in the interval between 0 and  $nT$  the vibrator should not "operate" (i.e. the displacement  $x$  of the vibrator should not exceed the gap  $x_0$  between vibrator's hammer and arrestor). They reconsider the solution of the equation of forced oscillations:  $Qx'' + cx = Q_0 \epsilon w^2 \cos(\omega t + \phi) - g(S \cdot Q)$ , where  $Q$  is the weight of vibrator,  $c$  is the stiffness of spring,  $w$  is frequency of vibrator,  $S$  is the static inertialess load on spring, etc.

Institution :

Submitted : April 2, 1955

USSR/Physics - Forced vibrations

FD-3154

Card 1/1      Pub. 153 - 10/26

Author : Barkan, D. D.; Shekhter, O. Ya.

Title : Forced oscillations of vibrator in case of mobile arrestor

Periodical : Zhur. tekhn. fiz., 25, No 13 (November), 1955, 2308-2312

Abstract : The authors note that in existing methods for computing forced oscillations of vibrator with arrestor (so called vibro-hammer) the arrestor is assumed to be immobile (I. G. Rusakov and A. A. Kharkevich, ibid., 12, 1942; S. A. Tsaplin, 1953). They derive the differential equations describing the oscillations of the absorbing element and of the vibrator taking account of the damping reactions, and obtain the general solution. They conclude that the ratio of the weight of the mobile portion of the vibrator to the weight of the absorbing element turns out to exert an influence upon the power expended during a shock.

Institution :

Submitted : April 20, 1955

SHEKHTER, O.Ya., kandidat tekhnicheskikh nauk.

Calculating vibrators used in sinking piles. Gidr. stroi. 25 no.4:  
41-44 My '56. (MLRA 9:9)

(Piling (Civil engineering))

SOV/124-58-1-109

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 14 (USSR)

AUTHORS: Barkan, D. D., Shekhter, O. Ya.

TITLE: Vibro-impact (Spring hammer) Mechanisms With a Special Impact Mass  
(Vibroudarnyye mekhanizmy so spetsial'noy udarnoy massoy)

PERIODICAL: Tr. N. i. in-ta osnovaniy i fundamentov, 1956, Nr 28, pp 62-72

ABSTRACT: The authors examine the problem of the steady forced oscillations of a system consisting of two masses,  $m_1$  and  $m_2$ , connected to one another by a spring of stiffness  $c_2$ ; the study applies to the theory of oscillatory hammers (spring hammers; Transl. Ed. Note), with a separate impact mass, employed in the driving of piles and sheet piles. A harmonic perturbation force is applied to the upper mass  $m_2$  with a frequency  $\omega$ . The lower mass  $m_1$  (impactor ram) is connected to the immovable foundation (anvil) through a spring of stiffness  $c_1$  and may collide with that foundation in the course of its motion. The impact recovery coefficient  $R$  ( $0 < R < 1$ ) is taken into account. The law governing the periodic motion of a system with a period of  $2\pi n/\omega$  is found, where  $n=1, 2, \dots$ . The formula for the collision speed  $V$  obtained by the authors coincides

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SOV/124-58-1-109

Vibro-impact (Spring-hammer) Mechanisms With a Special Impact Mass

with the well-known formula of A. A. Rusakov and I. G. Kharkevich (Zh. tekhn. fiziki, 1942, Vol 12, Nrs 11-12) for the special case of  $m_2=0$ . The conditions of optimization (relative to a maximal speed V) of the "tuning" of an oscillatory hammer are found, and a formula is obtained for the energy consumption thereof. The ranges for  $n=1$  and  $n=2$  for which solutions exist are explored for a laboratory version of an oscillatory (spring) hammer, a description and photograph of which are adduced in the paper. This subject was not explored for the general case, recordings of the experimental oscillations of either mass of the hammer approximate closely the shape of the respective theoretical curves.

I. I. Blekhman

Card 2/2

SOV/124-57-8-9476

Translation from: Referativnyy zhurnal. Mekhanika, 1957 Nr 8, p 131 (USSR)

AUTHOR: Shekhter, O. Ya.

TITLE: On the Calculation of an Excavated Rigid Foundation (K raschetu zaglublennogo zhestkogo fundamenta)

PERIODICAL: Tr. N i. in-ta osnovaniy i fundamentov 1956 Nr 30 pp 45-66

ABSTRACT: A description is given of the reactive pressure distribution along the undersurface and side walls of a penetration die pressing upon a rectangular excavation in a semi-infinite elastic surface, the width/length ratio of the rectangular die face being 1:2. To solve this problem by a method more efficient than that described in an earlier paper (RZhMekh. 1956, abstract 7680) the author sets up an analytical expression for the pressure distribution pattern in the form of an algebraic polynomial with an added term to denote any singularities. As a result of the calculations the author concludes that the fact of the die's having a broken contour does not alter significantly the pressure-distribution pattern over the undersurface of the die.

P. I. Klubin

Card 1/1

KRECHMER, V. V.

124-11-13209

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr. 11, p. 135 (USSR)

AUTHOR: Krechmer, V. V.

TITLE: Calculation Method for Plank Walls as Elastic Structural Elements with Due Consideration to the Compressibility of the Ground in the Restraining Encasement Area. (Metod rascheta shpuntovykh stenok kak uprugikh konstruktsiy s uchetom szhimayemosti grunta v oblasti zadelki)

PERIODICAL: Tr. N.-i. in-ta osnovaniy i fundamentov, 1956, Nr. 30, pp. 74-110

ABSTRACT: Calculation of the strength and deformation of a grooved wall loaded with earth fill, with or without a tie-down at the anchorage support. The upper portion is considered loaded by the active pressure of the fill. The lower portion is calculated as a bar which is elastically fastened to an elastic semi-plane. The contact problem is solved for an elastic bar and semi-plane with a load and moment representing the action which the fill exerts on the bar. No account is taken of the discontinuity in the semi-plane created by the insertion of the bar. The friction between the soil and the plank is disregarded. The stresses in the semi-plane are determined by means of Melan's

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124-11-13209

Calculation Method for Plank Walls as Elastic Structural Elements with Due Consideration to the Compressibility of the Ground in the Restraining Encasement Area. (Cont.)

formula as modified by the reviewer (Gorbunov-Posadov, M. I., Shekhter, O. Ya., and Kofman, V. A., Tr. N.-i. in-ta osnovaniy i fundamentalov, 1954, Nr. 24, pp 39-80; Referativnyy Zhurnal, Mekhanika, 1956, No. 11, 7680). The displacements are determined according to formulas adduced in the same work. The contact conditions, namely, the equality of the respective horizontal displacements, are imposed at three points only. This enabled the Author to relieve the computer from the need for the simultaneous solution of a system of equations.

The plastic deformations in the soil close to the upper portion of the elastic anchorage manifold are also disregarded. However, it is recommended that the depth to which the planks are driven into the ground be established from the requirement that the portion where the reaction pressure exceeds the passive pressure of the soil (with due consideration to the coupling) extend over no more than one-fourth of the length of the elastic clamping portion.

It is proposed that the lower end of the plank, which in the basic calculation is assumed to be free, is neither displaced nor rotated because of the presence of the stress-resistant semi-plane. There-

Card 2/3

124-11-13209

Calculation Method for Plank Walls as Elastic Structural Elements with Due Consideration to the Compressibility of the Ground in the Restraining Encasement Area. (Cont. )

fore, it is proposed that the reaction of the anchoring tie-down be determined as the reaction of a rigid support of a beam which is clamped at its lower end and loaded with an active pressure in its upper part and a reaction pressure in its lower part.

(M. I. Gorbunov-Posadov)

Card 3/3

BARKAN, D.D.; SHEKHTER, O.Ya.

Theory of forced oscillations with a stop. [Trudy] NIIOSP  
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